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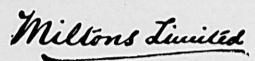
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tions for the following owners: Bell Telephone Co., Canadian Ingersoll Rand (3 Contracts), and Walter Blue Factory in Sherbrooke, and Canadian Cottons, Cornwall, Acadia Sugar Refinery (2 blocks, Dartmouth, N.S.; Bank of Montreal, Brantford, Ont.; Mr. Francis McLennan's residence, near Quebec; Can-

edian Hart Accumulator Cc., Ci. Johns P.Q.; Gananooue Spring and Axle Works, Gananoque, Ont.: Belding Paul Cyrticelli, Limited; Montreal Light, Heat and Power Co.: St. Lawrence Sugar Refinery, Loyola College (3 Bldgs.); Toilet Laundry Co., Montreal Baby and Foundling Hosnital, Edward Seventh School, Gault Bros., Ltd., and Williams Mfg. Co., all in Montreal.

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FIT-REFORM 444 ST. CATHERINE STREET WEST

Notes on Heavy Electric Traction," by Mr. J. A. Shaw.

ELEC. ENGINEER, C. P. R.

Remarks Confined Mainly to Chicago, Milwaukee and St. Paul Ry. Electrification.

The Canadian Railway Club listened to a very interesting and highly instructive address on "Notes on Heavy Electric Traction," by Mr. J. A. Shaw, General Electrical Enginer, Canadian Pacific Railway Company, last evening.

Mr. Shaw gave a brief resume of electrification on several of the railways, but confined himself mainly to the Chicago, Milwaukee and St. Paul Railway. Through the courte y of the General Electric Company, the lecturer was able to supplement his address by three films of pictures of

the advance of electrification. The C., M. and St. P. electrification differs from all previous projects in that it embraces four complete engine divisions as operated by steam locomotives. None of the existing electrifications on trunk line railways, either in this country or in Europe, have included more than one engine division. The electrified portion includes 440 miles of route, embracing 650 miles of track, and includes some of the most serious grades encountered between Chicago and the locomotives were necessary, and the daring flier overseas. schedule was with difficulty maintained. The very low temperatures in winter, ranging sometimes as low as 40 or 50 degrees below zero, made it extremely difficult to keep steam locomotives in operation. Under the electrical equipment for this line, but 42 locomotives are required, and the experience so far seems to indicate that this number will be able to cope with all conditions for some time to come. In addition, it is probable that trains will be operated much more nearly on schedule time, and with less

damage to equipment owing to acci-One of the most completely equipped hydro-electric plants on this system is the Volta plant in the Great term is the Great term in the Great term is the Great term in the Great term is the Great term in the Great term in the Great term is the Great term in the Great term is the Great term in the Great term in the Great term is the Great term in the Great term in the Great term in the Great term is the Great term in the Gre 000 k.w. vertical generators. The when it goes overseas. available head at this point in the

Missouri River is 155 feet, and the will give the Rangers two chaplains, supply of water is at all times ample. as Captain Hingston is the Catholic total weight of 282 tons, with nearly pointment is an official recognition 80 per cent. of weight on driving axles. of the fact that both the Roman Each locomotive carries eight 430 h.p. Catholic and Protestant rishmen in motors, each geared to a driving axle the Dominion have united together to with twin gcars. The tractice effort fight the battles of the Empire. It available for starting trains is ap- is also felt that when the battalion, proximately 135,000 pounds at 30 per which is commanded by Lieut.-Col. cent. co-efficient of adhesion, and the H. J. Trihey, visits Ireland, this cocontinuous tractive effort is 71,000

One of the most distinctive features Canada on patriotic questions. of this electrification is the regenera-Two trains descending a grade will air brakes. The brakes will thus al-

where other uses can be had for it. the superiority of electric locomotives over steam ones. A train of 48 cars miles per hour. Following this train type steam locomotives, and one Mallet steam pusher. Great difficulty was encountered in making the grade and the speed dropped down to 9 and

10 miles per hour. In the discussion which folio med it was brought out that there were ficers of the First Universities Com. 1890. many important and economical feat pany, P.P.C.L.I., and who was seri-regarding the probable electrification was one of the first of the officers of of the C. P. R. between Montreal the McGill C.O.T.C. to volunteer O and Quebec, the speaker said the when the organization of the First O physical features offered exceptional Universities Company was started. inducements in the way of water power, but that the peak load would

dents are invited to attend.

MAKES GOOD AVIATOR.



Formerly of Arts '17, and of the senior McGill football team, who has, according to reports, been making a Coast. Under steam operation 103 name for himself as a capable and

MAJ. SMITH APPZINTED CHAPLAIN TO RANGERS

Appointment is Recognition of Fact That all Irish in Canada Are United.

Major the Rev. James Smyth, prin-Falls of the Missouri River. This naught's Own Irish-Canadian Rangers, station at present contains four 10, and will leave with the battalion

The appointment of Major Smyth The main line locomotives have a chaplain at present; and the new apoperation will prove of advantage in illustrating the unity of Irishmen in

An influential deputation waited Two trains descending a grade will accept the post of chaplain, and the generate sufficient current to haul board of governors of the Wesleyan another train of equal tonnage up the Theological College having given him same gradient. When brakeing a train leave of absence till the beginning of pled with his great devotion to the

As chaplain of the 4th and 5th Miliways be in good condition when re- tary Districts, Major Smyth did a quired for emergency. Should there great deal of work during the sumbe no train available for absorbing mer and fall on behalf of the soldiers, the excess energy the power is taken organizing religious work in hospiup by one or more of the sub-stations tals, etc. He has also taken a promand returned to the main system, inent part in recruiting; and his vigorous speeches, mostly on behalf of Major Smyth came to Canada nearweighing 3,000 tons, was hauled up a Portadown, County Armagh, and have ideals of 'Old McGill.' tive. The grade was made quite east figure at Irish ministerial conferences. ily, as the speed averaged about 16 He is a member of the Protestant gratulation on his appointment.

LIEUT. IRWIN RETURNS. Lieut. W. Eric C. Irwin, Sci. '11, tions will continue to increase rapid returned to his home in Ottawa, on ly, especially in Canada. When asked extended sick leave. Lieut. Irwin O

The University of California receif- O be very abnormal, due to the unique ed a gift of a collection of Indian O condition of very heavy traffic after baskets. The collection formerly be- 0 the arrival of ocean boats at the dif- longed to E. L. McLeod. It contains O 230 specimens, chiefly baskets from O Mr. Shaw prophesied that just as California, but also from Alaska, O the horse car had given way to the British Columbia, and New Mexico. O street railway, so also would the The most valuable baskets in the col- O steam locomotive give way to the lection are those made by the Shos- O "King of the Rails," the electric lo-honean tribes in the vicinity of Kern O River, California.

UPON H.R.H. DUKE OF DEVONSHIRE, GOVERNOR-GENERAL.

For the purpose of conferring the honorary degree of Doctor of Laws upon His Excellency

The McGill Contingent, Canadian Officers' Training Corps, will attend in a body, the bat-

the Duke of Devonshire, Governor-General of Canada, and Visitor of the University, a special

Convocation will be held in the Royal-Victoria College to-morrow afternoon at 4.15 o'clock. Stu-

talion falling in on the old Campus at four o'clock. The evening parade for Thursday has been

SPECIAL CONVOCATION TO-MORROW FOR CONFERRING LL.D.

Sergt. Louis Robertson Was a Very Popular N. C. O.

FELLOW-SOLDIER WRITES.

Lieut. Donald Maclean, Arts '16, Warm in Praise of Qualities of Dead Soldier.

A warm appreciation of the late Sergeant J. Louis A. Robertson, Arch. '15, killed in action in July last, is contained in a letter received yesterday morning by McGill Daily from Lieut. Donald Maclean, past student with Arts '16, and now with the Princess Patricia's Canadian Light Infantry. A strange co-incidence is found in the fact that Lieut, Maclean

was himself reported wounded in resterday morning's casualty list. Lieut. Maclean writes from renches under date of November 25 as follows:

"I have just been reading your paper of October 3rd, and I would like to tell you a little about Sergeant J. L. A. Robertson, who was mentioned among those killed in Flanders. "He and I were sergeants together

for ten months, and I learned to like him more than any friend I have ever had. I have never known anyone more unselfish or so generous in his opinions of others. This won for him a great many friends in the Regiment especially among the 'old-timers,' who were more or less given to calling us 'McGills' (a name which in the early days meant a sort of jam-eating sol dier), and to thinking we would not be ready to chum up with the real old soldiers. Robertson's friendship for all those boys was so great that he did not wish to take a commission in the battalion when it was offered to him, because he feared that as an officer he could not mix with the men in the most friendly and unreserved

manner. "After we were acknowledged as fine fellows by the veterans of the second battle of Ypres, we felt that a high hill had been climbed, and we were getting nearer to the place tem is the Volta plant, in the Great tant chaptain to the Duchess of Conder to prove our right to share in the honors of our famous regiment. The opportunity came in June, and after the fighting I heard an old sergeant say in most emphatic tones, 'Whoever says the McGill boys are not great soldiers is no friend of mine, for the old-timers never fought so well.' I know he meant this, and that we were sure of our place among

these tried men. "I do not know anyone who did more in winning our way than Ser-geant Robertson. He was everywhere among his men during the heavy shelling. In the early day's morning of June 3rd, when we were retiring, he was one of the men who was not hurrying, and he even came or this electrification is the regeneral An influential deputation watted back to help some of the rest along. Two trains descending a grade will accept the post of chaplain and the open looking cooler under heavy fire. "It was with this brave spirit, cou-

by the regenerative method, there is next session, Major Smyth accepted men in his charge that he met his death, while encouraging his platoon, death, while encouraging his platoon, under heavy fire from German trench mortars, in the early morning of July

"There are many names on the Honor Roll of McGill University, but the name of Sergeant J. L. A. Robertson should stand among the highest, and his example led many others One of the pictures showed clearly the Irish Rangers, have been fruitful. to play the man, for he was a McGill man who in the greatest meaning of ly five years ago, being a native of the words lived up to the highest

grade by a 282-ton e'ectric locomo- ing previously been an outstanding Lieut. Maclean, who is reported wounded, enlisted originally with the First Universities Company as a pri-School Commission, and also of the vate. He was promoted to the rank was one of 31 cars, weighing but 2, Montreal Protestant Ministerial As-200 tons, and hauled by two Mikado sociation, which body at its meeting did ability as a soldier, and of his sociation, which body at its meeting did ability as a soldier, and of his yesterday passed a resolution of coning Camp at Niagara-on-the-Lake he made a name for himself as a wrestler. He is the son of Roderick Maclean, Burnaby, B.C. and was born at who went overseas as one of the of. Valleyfield, P.E.I., on September 18,

SCIENCE '17 PHOTO.

Mr. Stroud will be on hand Thursday at 1 p.m., to take the Science '17 photo for this year's Annual. In all former pictures which have been taken there has always been a number of men not included. In order to make this picture complete, it is earnestly requested that all members of the class be present in front of the Engineering Building at one c'clock sharp.

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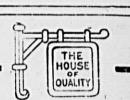
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AFTERMATH.

When a big gun is fired there results quite a bit of noise and smoke, and there is always a recoil. The projectile itself kicks up the birthplace of Catherine Van Rensa lot of dust into the bargain. These two sentences are applicable to selaer, the wife of Philip Schuyler. the elections held on Monday. The Big Gun has been fired, and the ander Hamilton. dust and grime and smoke of conflict now hang like a pall over the student life of the University. Some of these students have been ballast. These bear the date of 163e. accused of using unfair means to secure votes either for themselves. They are of various shapes and are or for the men whom they supported. There has been talk, in other of a bright terra-cotta color, A stone in the cellar wall bears the date 1642. years, of similar tactics being employed, but no such definite charges A tablet marking the house bears this were made as are now brought forward. What does it all amount to? The answer to such a question is somewhat hard to make be- ters while marching to attack Ft. fore the accusations voiced by a representative of the Faculty of Arts are substantiated by the facts which that gentleman has promised to beuse R. Shuckburg composed produce. However, a few general ideas on the whole question may popular song of 'Yankee Doodle. not be extraneous to the discussion.

One of the speakers before the Council, at the special meeting on Monday evening, went so far to say that the least solicitation for a lively interest, and any proposals that vote by a candidate or his supporters was something which should not be tolerated in a University. Some have since said that this is hearing from the Government. The going a little too far. It is true that the most honourable of our men in public life do not hesitate to address the voters, and when it comes to the fine thing this amounts to nothing more or less than a solici- representatives of the Council of the tation for their support. It is also true that five minutes' personal conversation with a man will reveal more to the observant listener irtroducing several reforms in the than will a column of print setting forth a contemplated policy. We have had examples of the latter here at McGill. "Platforms" seem to be, to the men who send them in, mere matters of form and things which can be lightly discarded after election. This has happened in some cases in the past, and we presume (with all due respect to the newly elected men), will happen in the future as long as human na- rot raised from 6 to 8 years; that ture is human nature. How, then, are we going to bring out the true capabilities of a man running for an office? There are many men in pavilion rooms at schools be made the University, and we don't for a minute imagine that they exist only in our University, who are true weather cocks, for by their attitude you can tell which candidate spoke to them last. But such people will be influenced, no matter what is done to enlighten them as be made available for use in the to which is the better man. It is a case of "Heads I win; tails you schools where earned, for the purpose lose," as far as their votes can be depended upon.

To the average man about college, for we believe that the average man is intelligent and capable of forming his own opinions, another's personality and character are most clearly revealed (cd; that steps be taken for the culby personal conversation. "Hot air" has a motive power, as far as tivation of public speaking; that wherever possible, steps be initiated the execution of student interests is concerned, about inversely pro- in the direction of insuring that portional to the square of its volume. Give a man enough rope, and wholesome; that in schools where he will hang himself. However, the danger in this lies in the fact first and second year courses are in that if even such a latitude is given there will be some who will over- operation bursaries obtained by pustep it, just as in the present case. To us there seem to be but two years at such schools, it being pointcourses open for its correction.

The more radical is that proposed last Monday, namely that children at centres away from home; there be absolutely no canvassing; with the penalty, we presume, of and that the teaching staff be inexpulsion for any student caught doing so. Without any outlet this the necessity of economy, particularwould make an election very "tame," and we are afraid that it is with regard to the wasting of food would tend to kill the interest which should be taken in any such important college affair. The other course is a modification of this. Let it be ordered that there be absolutely no personal solicitation for late Jack London, novelist, is clipvotes, but, if the candidates for office so desire, let there be meetings ped from the Daily Illini, the newscalled either of the various Undergraduate Societies, or of the individual classes, at which meetings the men who are seeking office could address the students, thus giving the student body an oppor- woodland trail. Never again will the fisherman cast his net into the deep. tunity of judging the men who wish to represent them. There are The author has penned his last line, disadvantages to this also. They lie especially in the fact that many and beneath, the hand of a greater a man who would be most conscientious in the execution of his duties don is dead. To him, a great advenis unable to express himself as his more verbose opponent is capable turer, has come the adventure glori-

If the statements made at the meeting of the Council are proven there will be no more stories, no more work hard he is looking fine and nevthen it is evident some change must be made. It will be for the Council to decide in what direction that change will be Council to decide in what direction that change will be.

It has been decided that the inter-

held in Princeton.

report of the committee,

Ann Arbor, Michigan.

chitectural Library.

brarians that is now in session at

earned a total of \$155,976 last year.

ATTENTION, DANCERS.

absolutely unpardonable, and therefore excusable only upon the Cornell next March. The meets are,

The Minnesota Daily has drawn up the following list of particularly good alibis which one would do well to remember at the dance on Friday. They are to be given (one at a time) after the cue sentence, "Oh! was this our dance. I'm sorry, but-"We couldn't hear the music."

"She couldn't get her pump back

"I quite mislaid my programme." "You two look so much alike I of the intercollegiate meet. These, didn't know which I was dancing however, are definitely settled as

"He was taking a cinder or some-

thing out of my eye." "I got mixed up-the punch must have gone to my head-what there

"We thought that was the fourth encore for the last dance." "I cut it on purpose because thought it was with your sister." "I saw you waving at me, but I

and I was hunting for it.' "I couldn't come in because

thought you were one of the chaper-

ticket taker was looking for me." around the block." "We thought you'd gone home."

"She got her finger stuck in the davenport and we had to get

the collection. "We were only just getting a drink." "We were looking for you every-

"I thought this was ours!"

"LIFE AND LOVE OF A DREAM "I am the Spirit of Romance before

A FRAGMENT FROM ROSALINE'S

which all the poets and lovers of the world bow down their heads. "It is only I, Romance itself, who understands this great mysterious Something. It is the pure unfettered soul of mankind. And all those with

real souls know me and understand

"All men have souls? Perhaps-but many keep them so carefully locked away in a secret corner of their existence that they would be as happy and as wise,-soulless.

"Through the eyes of Romance, the favoured see the world,-and life, not as they are, but as they ought to be,—as we would love to have them,-a fairyland with every thorn a rose.

"In this fairyland, listen! Can you hear the voice that is speaking? A voice, so low, so sweet, that charmed you stop to listen:

"Tis Romance, not love," it says, "that makes the world go 'round."

THE DREAM GIRL.

HOME OFFERED TO UNIVERSITY. ALBANY, N.Y .- Ft, Crailo, said to the oldest house in the United States, has been offered to the University of the State of New York, It stands in Greenbush, a suburb of this city, and from the best information obtainable was built about the year 1659. The house was the fortified home of the Van Rensselaers. It was and the mother of the wife of Alex

The building was constructed of bricks brought over from Holland as

inscription "General Abercrombie's headquar Piconderoga in 1758, when it is said that at the cantonment east of the

EDUCATION IN AUSTRALIA. The subject of education is one in which Australians always shows Dray be for the benefit of pupils in any direction receive a sympathetic Minister for Education in New South Wales, the Hon. Arthur Griffith, recently received a large deputation of 'arents' and Citizens' Association of New South Wales on the question of administration of state schools. The eputation was introduced by a member of Parliament, who was supportd by some of his colleagues. Amongst the requests put forward for the co.1 sideration of the Education Minister

were the following: That the compulsory school age be more up-to-date seating accommodation be provided in schools; that ali suitable; that in the selection of future sites for schools ample space for playground accommodation be secured; that the interest earned hildren's deposits in school banks of restocking libraries and purchasing articles for the benefit of the

pils be made tenable for at least two ed out that many parents could not afford to pay for the board of their at luncheon and playtime.

The following appreciation of the

The hunter has followed his last artist has written finis. Jack Lon-

It is hard to realize the fact that

understanding this fall as to the dates of forty years. London was an artist. In literaof the intercollegiate meet. These, ered new worlds. Since he brought March 16th and 17th, according to the forth his best loved stories, most novelists who have written of the north, of its men and its beasts have A conference for the exponents of but rehashed in inferior fashion what vocational education is being held in he had done first and well nigh perconjunction with the convention of lifectly. There are differences of opinion as to the merits of his style and the value of his subject matter. There can be no question that in his own The department of architecture at field and with his own tools he was

the University of Illinois has recently supreme. made some very interesting additions Now that London is dead, the work "Someone ran off with my knitting to its collection of casts. Eight panels of his later years will for the most of the frieze of the Parthenon, four part be forgotten-and it is well. He the from the eastern and four from the is not the first artist who has wanwestern frieze and a portion of a full dered a little from the part of art to "We didn't know it was so far size capital of the same building have follow the gods of gold. He is not arrived and will be hung in the Ar- the only one who has drifted into an egotistical socialism. There comes an Several interesting smaller casts of age when even adventurers desire the historic ornament have been added to peace and worldly goods and the glare of a great success dazzles. But when Americans shall read "The Call of According to a recent report 715 novels are forgotten, Jack London will "Tales of the Fish Patrol," and numstudents at Columbia University still be remembered for the work of ber the author among the work-

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DR. JUNES HAD SOME THRILLERS AT FRONT

tle of the Somme for About Three Weeks.

gave up his practice at Salisbury, N.B., a year ago, to do his bit in a professional way at the front, reached nett. Med. '00, who is second in comhome last week. The ocean trip was mand of No. 6 Canadian Field Ammade in fast time. He has had a bulance on the French front. Major busy year, and while he has had to Burnett, in the words of the official ers many novelists are no more than was splendidly treated, not only by numerous duties with great skill and two or three words upon the title his fellow professional men, soldiers determination though under vania, and Princeton will be held at ways and understandable in all. Even ately escaped without a scratch. He lumbia's turn this year to have the Intercollegiates, but for some reason the world old quests. In Jack Lonkilled. He happened at the time to be the Columbia authorities have waived don, fisherman, hunter, longshoreman, at the opposite end of the dugout this right. Hence they have been fish patrolman, war correspondent, from which his less fortunate comchanged to Cornell, the next in line, and tramp, the spirit of American ad-rades were standing. Dr. Jones Cornell is the present champion, and venture found its fullest expression, speaks in the highest terms of the it should be to her advantage to have lived incarnate. He will have honor courage and optimism of the boys at this year's intercollegiates held in among the great soldiers of fortune the front. He has seen men fatally the home gym. Last year they were for all time. Perhaps by no other wounded who would laugh and joke man has so full a gamut of experi- and probably say: "Well, they got me There has been considerable mis- ences been run within the short space that time, but we gave it to them all the same; hand me a cigarette." Dr. Jones will probably return to ture he was a Columbus; he discov- the front again in the course of a cou-

ple of months. DELTA SIGMA DEBATE. The second debate of the Delta Sigma Society will take place between

the Sophomores and Freshmen in the Common Room of the R. V. C. at 2.30 this afternoon. The proposition to be discussed is:

Resolved, that the Novel has exerted a greater influence than the Play." In this Miss Elinor Forde and Miss Christina Rorke, of the Freshman year will uphold the affirmative side, while Miss Elizabeth Monk and Miss Helen Hague will defend the nega-

The subject is one that is of inter est to every student, and therefore a large attendance is expected.

his glorious youth. Generations of great tellers of tales.

McGill Graduate Was at the Bat. Lecturer in Faculty of Medicine Decorated for Service on

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Somme.

Among the awards of Companion-Dr. H. A. Jones, Med. '00, who ship of the Distinguished Service Or-

pages of their books, but to all Jack and officers, but by the people in gen-London was a personality. That was eral. Dr. Jones was at the battle of Cutting a dance is one of the collegiate wrestling meet between because he not only wrote, but lived the Somme for about three weeks, Medicine, and dermatologist to the most common of social crimes. It is Columbia, Cornell, Lehigh, Pennsyl- as well. He was admirable in many and had some close calls, but fortunthose who choose the quiet ways of was in one dugout at the Somme when bulance here in the spring of 1915, presentation of a paricularly good as a rule, held in rotation at the various colleges in the league. It is Co- romance and envy those who have the molished by shells; several of his mand. He has since been with his

> Y. W. C. A. PICTURE. The Y. W. Cabinet picture will be taken at 1.45 p.m. to-day.

THE SOCIETE FRANCAISE. The Societe Française will assemble at 11 a.m. at Gordon's Studio, to have its picture taken.

Y. M. BOARD MEETING. A regular meeting of the Board of Directors of the McGill Y. M. C. A. is called for five o'clock to-day. All members are requested to be present.

Alfred Noves, visiting professor of English, will return to Princeton in February in time for his second term Senior Course in the 19th century poetry. Professor Noyes for the past few months, has been doing publicity work for the English Government. He has written an article on the English fleet and has made many reports concerning the front in France and Flanders.

HOCKEY PRACTICE.

There will be a hockey practice at the Arena to-day at 5 p.m. The following men are requested to turn

Scott, McTague, McCulloch, Slater, the later society and sociological the Wild," "The Sea Won and Rooney, McGee, Behan, Cully, Beach, Fraser, Anderson, Kelsch, Gibb, Rothschild, Jacques, Robillard, Kelley and

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est in Science, Art and Literature. At

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Lastly, it is announced that the

is to be held at the Commercial and

17, from 3 to 4.30 p.m. The main

on "The Housing of the People," by

Thos, Adams, the Town Planning Ad-

viser of the Commission of Conser-

vation, Ottawa. There will also be a

Young Men's Hebrew Association Or-

chestra. It is hoped that many Mc-

yesterday evening at the Central Y.

About fifteen men turne d out, and

went through a stiff practice for

DR. LEACOCK IN CHICAGO.

Dr. Stephen Leacock is in Chicago

MENTION IN DESPATCHES.

retary of the College Entrance Ex-

amination Board in the United States

just published, states that the Board

examined nearly 11,000 candidates

for admission to college, as against

5,000 in 1915. The "comprehensive examinations' were held this year for

the first time. Their establishment

was due chiefly to the joint action of

Harvard, Princeton, and Yale Uni-

versities, which discontinued their

June examinations and gave the Board

the services of their representatives

delivering some lectures with regard

about an hour.

to the war.

erations at Saloniki.

basketball practice was held

good musical programme.

attend its meetings.

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WHAT'S ON

TO-DAY. 11.00 a.m.-Societe Française pic-1.45 p.m.-Y. W. C. A. Cabinet

McGill Men Urged to Attend its picture. 2.00 p.m.-R. V. C. '17 Picture. 5.00 p.m.-Y. M. C. A. Board

Meeting. 5.00 p.m .- Union House Commitdeserves the hearty support of McGill tee. students, but which so far has not ob-

COMING.

tained that support, is the People's Forum of Montreal. This society exists for the purpose of promoting Dec. 14.-R. V. C. Undergraduate Society. Dec. 14-Special Convocation at he R. V. C. The meetings are open to all, and no charge is made. There is always a

Dec. 14—Science '17 picture. Dec. 14—Y. M. C. A. Board pic-

with some interesting topic. Open discussion is invited after the speaker has finished, and this opportunity THE UNRETURNED BOOK. Will the gentleman who found "Sedgwick and Wilson's General to express one's opinions, and to hear others should appeal to most Biology" book in the Arts Library on McGill men. It is well known that Saturday afternoon, November 25, only a few students have any chance to speak in public. The "Lit." is availkindly return it to the Medical Libable for only a limited number; those

rary, as he promised to the Arts' Librarian. STUART FORBES BACK. According to advices received from Lieut. Stuart Forbes, M.C., Sci. 15,

dent in increasing his knowledge of who was reported wounded a short civic, social and economic questions, time ago, he is now fully recovered, and will probably stimulate his inter- and back in the trenches.

WITH SYMPATHY. A reflection from Monday's elections was to be seen in the Engineernext meeting of the People's Forum ing Building, when a strip of crepe was found hanging on the notice board Technical High School, 53 Sher- of the Common Room, with the folbrooke Street West, on Sunday, Dec. lowing message upon it: "To and Company, with deepest subject will be an illustrated address sympathy."

R. V. C. '17 PICTURE. The R. V. C. 1917 Class picture will be taken at Gordon's Studio tomusical programme supplied by the day at 2 p.m.

Gill students will see their way clear R. V. C. BASKETBALLERS to attend. PLAY RETURN GAME

Journey to Ste. Anne de Bellevue to Tackle Teams from Macdonald College.

Lt. Col. E. C. Hart, Med. '94, of the College to play a return match. The O urged to be on hand sharp on canadia. Army Medical Corps, has second team will leave the C. P. R. O time, in order that those who station on the train at 4.05, and will O have lectures at two o'clock been entioned in despatches for his play as soon as they reach the col- O may not be kept late. services in connection with the oplege. The first team will leave Mont- O real by the 5.15 train, and will play 0 0 0 0 0 0 0 0 0 0 0 0 0 after supper. The 16th annual report of the Sec-

The teams are as follows: First Team: Forwards, E. Abbott O and R. Goodwin; Wings, G. Craig, O Q. Savage; Centre, M. Spier; Guards, O D. Hicks and W. Wyatt.

2nd Team: Forwards, E. Ross, R. O Contant; Wings, G. Moody, R. Salo-mon; Centre, H. Graham; Guards, O K. Milligan, R. Rogers. Spares: F. Kilgour, J. McCulloch O and H. Nichol.

on the committees latrusted with the preparation of the question papers. It has been decided to have the O those who wish to go are requested O Aris '19 dinner on the 19th of De- O "Doggone, if Germany licks Eng- cember, at the Windsor Hotel. All O land. suppose we'll be smoking to buy their tickets to-day. Tickets O matter at once. Kaiser Wilhelm tobacco instead of can be had from the executive at any o

IN FRANCE STUDENTS STUDY AT COLLEGE

They Do Not Get Much Time for Athletic Activities.

(The Daily Princetonian.) At this time, when America is so R. 3. Angus, Esq. interested in Belgium and France, The Daily Princetonian has obtained a comparison of the universities in those countries with our own. Two members of the Faculty, who have come from Belgian and French universities, have given their impressions of the great outstanding differences between the universities where they taught and those of our country

In athletics the greatest difference may be found. Nothing approaching the organized teams of American universities exists in similar institutions in either Belgium or France. No athletics are officially recognized in those countries, and only when some students find a field or back lot for a game are sports of any sort indulged in. In France, of course, the student gets two full years of hard physical training in the army, but as in Germany there is a tendency to neglect the body until it is built up by army

No organized clubs or societies tind any place in Belgian or French university life. The students seldom, if ever, meet together except in the lecture room. Those who are interested in music join a club of music lovers in the town. Such an organization as the Triangle Club is practically unheard of. The organization and interest of the alumni of American colleges seem wonderful to a French-

All this may be accounted for by the fact that the students of Belgium and France are as a whole much more serious than our college men. They come to the universities with one object in view, namely, to study and get a degree. Consequently, they take no time for extra-curriculum ac tivities. The examinations, especially those set by the state for official positions, are extremely hard. In France an average of seven or eight out of a class of 35 pass at the first attempt. The examinations set by the university for a university degree are easier, but are not recognized by the government as entitling one to an official degree. The state requirements in Belgium, moreover, are for the most part old fashioned because of the red tape involved in changing

Now, however, the universities are practically deserted, with their students and a large portion of their professors at the front. A Frenchman describes how he visited a great Paris university five months after the beginning of the war. The huge lec-ture hall, with seats for 500 students, was occupied by 30 women listening to an old professor, while one lone man, a hunchback, crouched in a dark corner. Since the war began, how-ever, and even before, the French universities have been encouraging Americans to study in France for their degrees. For many years before this time it was the fashion for Americans to get their degrees in Germany, but now a doctor's degree may be procured in France after two or three years' work. This is a univer-Society De. sity degree, however. The official state degree requires seven or eigh years' work.

FOR POOR OF CITY

Y. W. C. A. of the R. V. C. Will Brighten Many Homes in City Christmas Day.

This war has at least one favourable aspect-the Canadian cities have less poverty to cope with. Nevertheless there are still some families which connot live on Government money, and are practically destitute. The Royal Victoria College Y. W. C. A. is endeavouring, through its extension department, to have some of these families provided for on one day at least, namely, Christmas. Each dinner will cost about two dollars, and the students, whether individually or in groups, who wish to contribute a dinner, are asked to sign their names on the list in the R. V. C. entrance Hall, or hand them in to Ivadel Hind, '18, by Thursday morning, Dec. 14th, at the latest. This is absolutely necessary, because the families have not only to be found, but each one has to be visited and their circumstances learned, before the names and particulars can be handed to the stu-

dents. The students who live in the city will be expected to purchase the dinners, and arrange about their delivery themselves. A menu will be made out for those who wish it. For the out-of-town girls who have signified their willingness to help, Miss Hind has made arrangements to have all this done for them, but they will receive all particulars about the familles they are looking after.

Y. M. C. A. BOARD PICTURE. Arrangements have been made with Mr. Gordon to take O the photograph of the Board of O Directors of the McGill Y. M. O This afternoon the R. V. C. basket O C. A. on Thursday (to-morball teams will go out to Macdonald O row), at 1 p.m. Members are O

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ANNUAL PROOFS.

Gordon, the photographer for O the 1918 Annual, announces O that many of the students who have had their photos taken for the Annual have failed to O return the proofs which they O received. It is absolutely ne- O cessary that these proofs be O returned, together with an O indication of which picture O the person wishes finished for O publication. Students of '18 O are requested to attend to this O

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The length of the course is three years in three terms of 94% months each.

The total cost of the course, including board, uniform, instructional material and all extras is about \$500.

The annual competitive examination for admission to the college, takes place in May of each year, at the headquarters of the several military districts.

For full particulars r zarding this examination and for any other information, application should be made to the secretary of the Militia Council, Ottawa, Ont., or to the Commandant, Royal Military College, Kingston, Ont.

Everyone is expected to attend.

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C. J. SIMARD, Asst. Prov. Secty.

Use of Gas at the Front -(W. B. CAMPBELL, Sci. '10, in the Journal of Commerce.)

o put the thing into practice.

new idea. Perhaps the earliest actual use of such a thing is, like that of many other inventions, due to the hinese who many centuries ago used stink bomb for the confusion of heir encmies. So far as we know, 0.005 deadly in its effect, but was calculated to be sufficiently annoying to disweapons were being brought into play. In this respect it is somewhat related to the German tear shells, of which more will be said later on. To MISS M. POOLE

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The Royal Military College of Canada. Notwithstanding this, incorporation and only the special and military far for the wise of Canada. Notwithstanding this, is special and military in fact, it corporated on special powers and powers and rights and the special powers and the special powers and the special powers and the special powers. The Commandant and military in fact, it corporation and the interest therein, and the military contents of the company of company of company of the come down to more recent times there is the story going the rounds of the

ficient to cause vomiting, but the effects wear away rather quickly when the victim reaches fresh air.

amination for Dominion Land Surveys to be equivalent to a university degree.

The length of the course is three years in the total cost of the course, and the company in kind any propertion of the course is three years in the total cost of the course, and all extras is about \$800.

The length of the course is three years in the total cost of the course, and all extras is about \$800.

And all extras is about \$800.

May of each year, at the headquarters of the several military and the formation, application to the company may have power to dispose of the several military of the Milita Council, Ottawa, Ont.

R. V. C. UNDERGRAD. SOCIETY.

An important meeting of the Understandard society of Royal Victoria College will be held to-morrow, Everyone is expected to attend.

Everyone is expected to attend. Effective Concentration (written M. E. C.) has been adopted for the least concentration which will knock a man mum Bearable Concentration (written M.B.C.) is the greatest concentration which a man can stand for one hour.

Let us now consider some of the gases commonly known as very poisonous and see which of them can be used. Take first Arsine, AsH3, it requires 0.10 per cent. for twelve a boiling point of 40 deg. C., so that t would not discharge itself from a cylinder. It cannot be used in a shell

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When in April, 1915, the Germans | because it decomposes on detonation. | came into use, but aside the peculiar made use of poisonous gas in the sec- Sulphur Dioxide is a little more than smell no one noticed any particular ond battle of Ypres, the remainder of twice as heavy as air, and has a content world remarked in a shocked horvenient boiling point—10 deg. C. It ror "what devilish ingenuity these has a M.E.C. of 0.05 per cent., and The first gas attack of the war was But as re. M.B.C. of .005 per cent., and should made in April, 1915, at the second gards mere devilish ingenuity they lag therefore be considered at least a battle of Ypres. It was directed mostfar behind the imaginative writers possibility. Nitric Oxide NO2, has a ly toward the French troops, who who concoct the lurid ideas that ap boiling point of 26 deg. C., and would were on the left of the Canaear so often in the Sunday editions on that account be difficult to use, dians, but there was enough on of some of the metropolitan newspa- although it has a M.E.C. of 0.05 per the Canadian front to cause heavy pers. Who has not picked up one of cent. Hydrogen Sulphite, H2S is not casualties. On the French front it hese papers and read of some very quite heavy enough. Its M.E.C. is was terribly successful, making a plausible sounding scheme whereby 0.1 per cent., and its M.B.C. is 0.01 clean sweep over a front of over two he enemy are to be killed off in per cent., about half as poisonous as miles. No one had any protection, thousands while our army goes march. Sulphur Dioxide. Carbon Monoxide is and the only survivors were those who ing on without hurt or hindrance? The generally supposed to be very point buried their faces in the earth or were average reader devours such articles sonous, but is not so deadly as might able to get up high enough to be and revels in the slaughter as he sits be supposed. It has a M.E.C. of above the cloud. Evidently the imby the fire on Sunday morning. The 0.5 per cent., and a M.B.C. of 0.1 mense effect had not been anticipatmain difference between these in per cent., being only one-fifth as poiled by the German General Staff, since ventions and that of our friend Fritz sonous as hydrogen sulphide. Chlor- they did not take full advantage of s that Fritz has added knowledge ine is by all odds the most effective the gap they had opened up, alo his imagination and has had suf- of the common gases. It has a boil- though some small parties of Gering point of 36 deg. C., so that when mans wandered so far forward that ficient contempt of the world's opinion liquified at ordinary temperatures it they got lost and were later made has a pressure of about six atmos- prisoners. The main German force The use of poisonous gases is no pheres, which is quite convenient for did not advance until the third Canathe purpose. It is about two and a dian Brigade, assisted by a battalion half times as heavy as air, so will of Durhams just newly arrived from hug the ground pretty closely. It is England, had extended their line highly poisonous, M.E.C. being only about three thousand yards, and al-0.01 per cent., and M.B.C. being though this did not fill the whole gap per cent. It is also cheap and however, this was not particularly available in large quantities, so that it is most frequently used by the Phosgene or carbonyl effected. Germans. ract the attention while more potent chloride, COCI2, is another German favorite. It is about three and a half times as heavy as air and is more poisonous than chlorine, but considerably slower in its action. M.E.C. 0.02 per cent., M.B.C. 0.005 per cent. Even small concentrations such as

be about 22,000 cubic feet of air per came into being. This was simply a minute passing over each yard of flannel bag with a window of celluof one-tenth of one per cent., this will ture and breathing was done through call for about twenty-two cubic feet the cloth both in and out, the chlorof pure gas per minute per yard of ine being removed in passage. When trench-equivalent in the case of this helmet was being worn the botchlorine, to about 41/2 pounds per tom was tucked under the tunic so as minute per yard. The gas is sup to make a tight joint and the head plied in cylinders holding about 65 was completely enclosed. Foul air pounds of the liquid, so that to keep from the lungs accumulated to some up an attack of this intensity under extent inside the helmet, but this was the conditions given would require not found to be as detrimental one cylinder per yard of trench for practice as some doctors anticipated. every 15 minutes' duration of the at- it did, however, make the helmet untack or about 50 tons of gas to the comfortable to wear for any length of mile front. The cylinders them time, but the main point was that selves about as much again, so that it efficiently stopped the requirements of material alone was in use until the latter part of amount to about a ton for each 17 or August, 1915. crooked communication trench on a dark night there is the additional work of preparing emplacements for Helmet" was slight protection. At first sight it might seem quite a them, since they must not be exposed

too low at ordinary temperatures or the gas will not discharge itself from the cylinders with sufficient rapidity.

I age but not least the pressure be used, since they are decomposed by the detonation when the shell extended this was used phonol. The sood was the cylinders with sufficient rapidity. Last, but not least, it must be suffi point of 26 deg. C., is one of these. It equivalent to the phenol and leave ciently poisonous so that greatly di-luted with air, as it will be, it will still be powerful enough to put men cult to obtain sufficient concentration. This helmet gave very efficient proout of action quickly, say, in five min- of a poisonous gas and maintain that tection against chlorine, and was so utes. In comparing the poisonous concentration long enough for it to be easy to wear that it was used in pracqualities of gases the term Minimum effective. The gas shells used by the Germans are the 150 millimeter time without discomfort. In one athowitzer size, and have a capacity of tack it successfully withstood gas for 2,350 cubic centimeters. This amount over four hours. It also provided out in five minutes. The term Maxi- of the liquid is spread by the explo- some protection against the phosgene sion through the surrounding air to a distance of about ten yards in every direction from the shell or into about over during the cold weather. This 50,000 cubic feet. The greater part of was abundantly shown when the Gerthis is immediately shifted by the mans made an attack of record inwind, and unless exceedingly heavy tensity and duration just north of bombardment is maintained on the one area the concentration of poisonous material is too small to be danhours to cause deah, so that Arsine gerous. In consequence shells are is pretty weak. Nickel Carbonyl Ni not much depended upon for actual (CO)4, is rather poisonous, but it has toxic effects. By loading them with some substance like Xylyl Bromide, C6H4CH3CH2Br, which has a high boiling point-about 193 deg. C .- a large part of it is driven into the ground when the shell bursts, and it takes several days for it to evaporate. This Xylyl Bromide is extremely irritating to the eyes, one part of it in two hundred thousand parts of air be ing unbearable without protection It is, however, not permanently injuri-ous. These "tear shells," then, though not deadly, are capable of causing a great deal of annoyance at critical

-sufficient at least to combat any concentration which might be put Ypres on December 15, 1915. times, especially when used against artillery who have to maintain their position. In at least one case a battery has been compelled to shift simply on account of these tear shells, although no one had been hit. The shell holes generally have sufficient of the Xylyl Bromide in them to be uncomfortable for about three or four days. In the case of the battery just mentioned, about two hundred and seventy shells were planted in the vicinity in about half an hour or so. Another substance used by the Germans in shells is chlormethyl chloroformate. This has the tear producing effect of the Xylyl Bromide, though in a less degree, and it also has the poisonous effect of phosgene from which it is made. This shell is not particularly effective, as neither its poisonous nor its irritating proper-ties are sufficiently great. In one case a small wood in which there were many Canadians was fairly heavily hombarded by these shortly after they

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sufficient resistance was made

About this time the "Smoke Helmet'

lose acetate stitched in. The flannel was soaked in the soda-hypo mix-

About this time, or slightly before, the secret service brought word that

the Germans were preparing to use

Phosgene, against which the "Smoke

meet this temporarily and to improve

(To be Concluded.)

chlori.e. This

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